

Remarks

Applicants respectfully request reconsideration of the present application in light of the foregoing amendments and following remarks.

With entry of this Amendment, claims 1-9, 11, 12, 14, 16-28, and 30-34 are pending. Claims 12 and 19 are independent.

Claims 1-9, 12, 14, 16-18, 28, 30, 31, 33, and 34 are amended. No new matter is added.

Claims 1-9, 11, 12, 14, 16-18, 28, and 30-34 are rejected. These rejections are respectfully traversed.

Patentability of Claims 3-7, 12, 14, and 16-18 under 35 U.S.C. § 112

Claims 3-7, 12, 14, and 16-18 are rejected under 35 USC § 112, second paragraph, as being indefinite. More particularly, the Action asserts that use of the word “may” renders these claims indefinite.

Claims 3-7, 12, 14, and 16-18 have been amended to remove the word “may” therefrom.

Accordingly, the 35 U.S.C. § 112 rejections should be withdrawn from claims 3-7, 12, 14, and 16-18.

Patentability of Claims 12, 14, and 16-18 under 35 U.S.C. § 102

Claims 12, 14, and 16-18 are rejected under 35 USC § 102(e) as being anticipated by U.S. Patent No. 6,961,347 to Bunton et al. (“Bunton”).

Applicants submit that independent claim 19 is allowed and that independent claim 12 should be allowed for at least the same reasons as claim 19 because claim 12 recites various features that are similar to those recited in claim 19. For example, whereas claim 12 recites a memory agent that “receives a plurality of training sequences having different mapping indicators on the plurality of first receive lanes during a testing operation,” claim 19 recites “transmitting a first training sequence to a memory agent on a first plurality of lanes during a testing operation” and “transmitting a second training sequence to the memory agent on the first plurality of lanes during the testing operation.”

Whereas claim 12 recites a memory agent that “transmits a plurality of return sequences on the plurality of first transmit lanes wherein each of the plurality of return sequences is responsive to a corresponding one of the plurality of training sequences according to a

corresponding one of a plurality of mappings during the testing operation,” claim 19 recites “transmitting a first return sequence from the memory agent on a second plurality of lanes responsive to the first training sequence according to a first mapping during the testing operation” and “transmitting a second return sequence from the memory agent on the second plurality of lanes responsive to the second training sequence according to a second mapping during the testing operation.”

Whereas claim 12 recites a memory agent that “analyzes the return sequences based on the plurality of mappings to identify failed lanes in the plurality of first receive lanes and the plurality of first transmit lanes,” claim 19 recites “analyzing the return sequences based on the first and second mappings.”

Also, as discussed in the Response filed August 30, 2006, to the extent that Bunton may be interpreted as using any mappings, only one reordering is used, and it is used to correct lane orders *after* a testing operation and analysis, not *during* the testing operation. Thus, as claim 19 is not anticipated by Bunton, neither is claim 12 anticipated by Bunton.

Accordingly, the 35 U.S.C. § 102(e) rejections should be withdrawn from independent claim 12 and claims 14 and 16-18, which depend directly and indirectly from claim 12 and recite additional features that are neither taught nor suggested by the prior art.

Patentability of Claims 1-9, 11, 28 and 30-34 under 35 U.S.C. § 103

Claims 1-9, 11, 28, and 30-34 are rejected under 35 USC § 103(a) as being unpatentable over Bunton in view of U.S. Patent No. 5,515,361 to Li et al. (“Li”).

Claims 1-9, 11, 28, and 30-34 are hereby amended to depend directly or indirectly from independent claim 12 and should be allowable for at least the same reasons presented above in support of the parent claim 12.

Accordingly, the 35 U.S.C. § 103(a) rejections should be withdrawn from dependent claims 1-9, 11, 28, and 30-34.

Allowed Claims 19-27

Applicants appreciate the allowance of claims 19-27 and agree with the Examiner that the claims are allowable over the prior art of record.

Conclusion

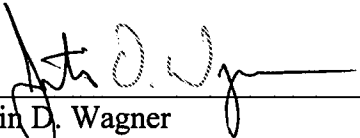
Applicants submit that the present application is in condition for allowance and such action is respectfully requested.

The Examiner is encouraged to telephone the undersigned at (503) 222-3613 if it appears that an interview would be helpful in advancing the case.

Customer No. 32231

Respectfully submitted,

MARGER JOHNSON & McCOLLOM, P.C.


Justin D. Wagner
Reg. No. 54,519

MARGER JOHNSON & McCOLLOM, P.C.
210 SW Morrison Street, Suite 400
Portland, OR 97204
(503) 222-3613